

t78_enumset1 (TMcXzkUjFHSyR- baHuWP5XdxLqVunAeKjcFd)

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Let $k7_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.k2_xboole_0 (k2_xboole_0 X0 X1) X2 = k2_xboole_0 X0 (k2_xboole_0 X1 X2) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\forall X6.k5_enumset1 X0 X1 X2 X3 X4 X5 X6 = k2_xboole_0 (k2_tarski X0 X1) (k3_enumset1 X2 X3 X4 X5 X6) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\forall X6.\forall X7.\forall X8.k7_enumset1 X0 X1 X2 X3 X4 X5 X6 X7 X8 = k2_xboole_0 (k2_enumset1 X0 X1 X2 X3) (k3_enumset1 X4 X5 X6 X7 X8) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.k2_enumset1 X0 X1 X2 X3 = k2_xboole_0 (k2_tarski X0 X1) (k2_tarski X2 X3) \quad (4)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\forall X6.\forall X7.\forall X8.k7_enumset1 X0 X1 X2 X3 X4 X5 X6 X7 X8 = k2_xboole_0 (k2_tarski X0 X1) (k5_enumset1 X2 X3 X4 X5 X6 X7 X8)$$